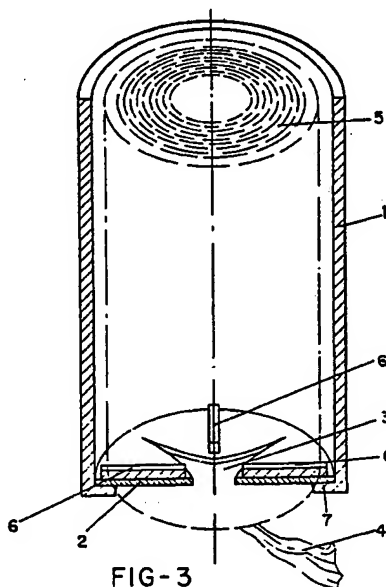


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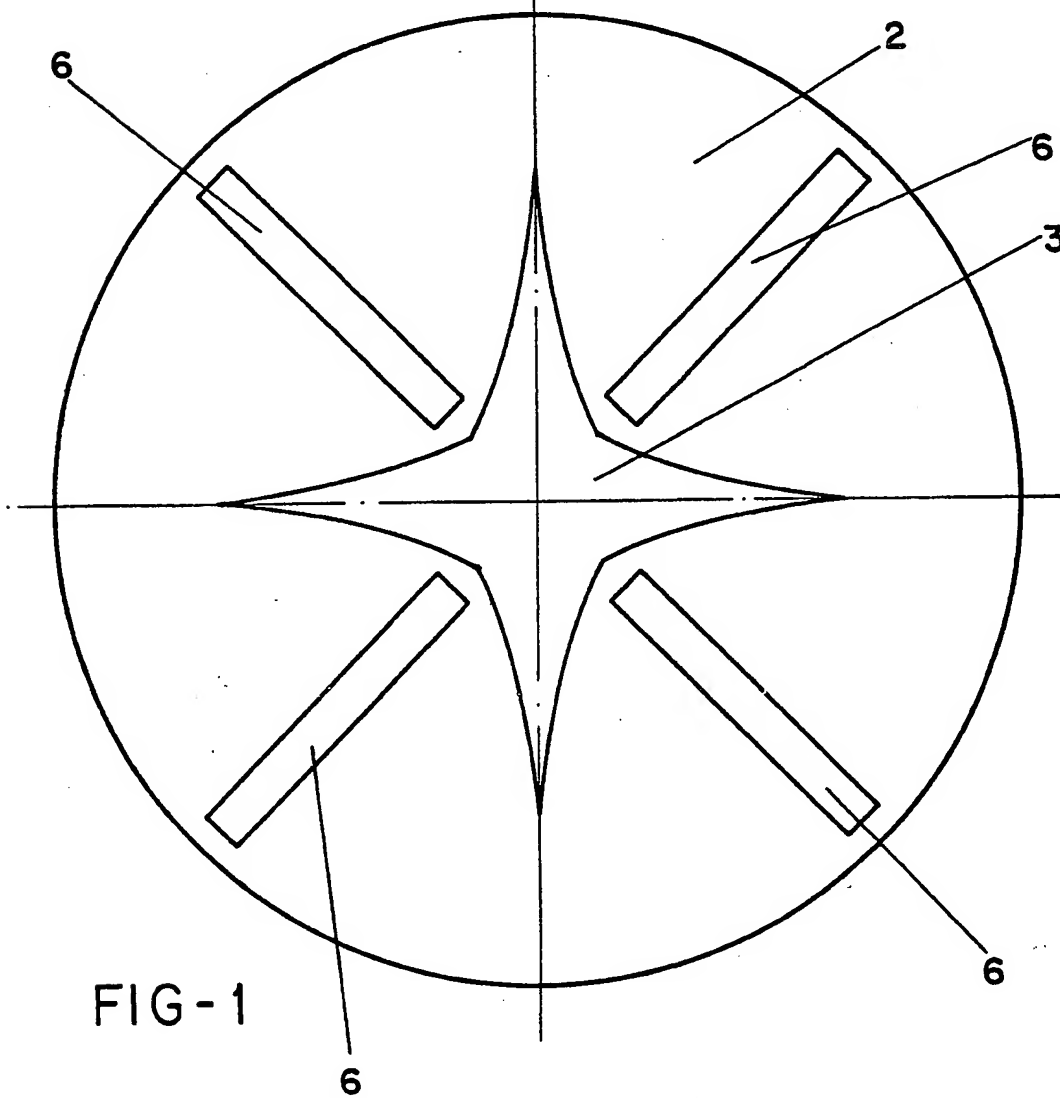
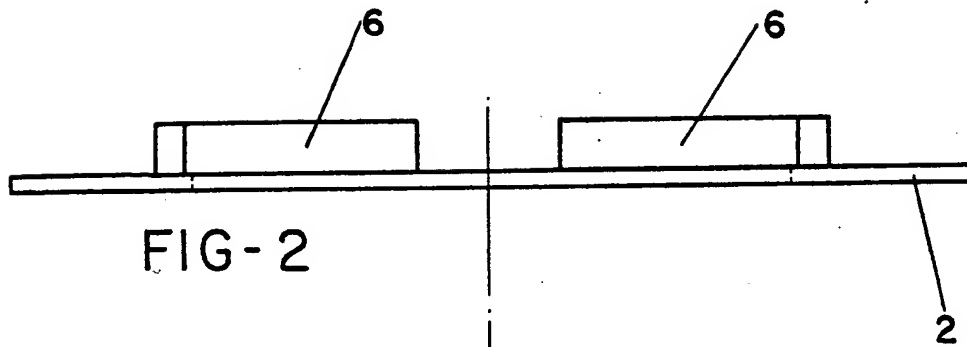
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(54) Improved paper dispensing device

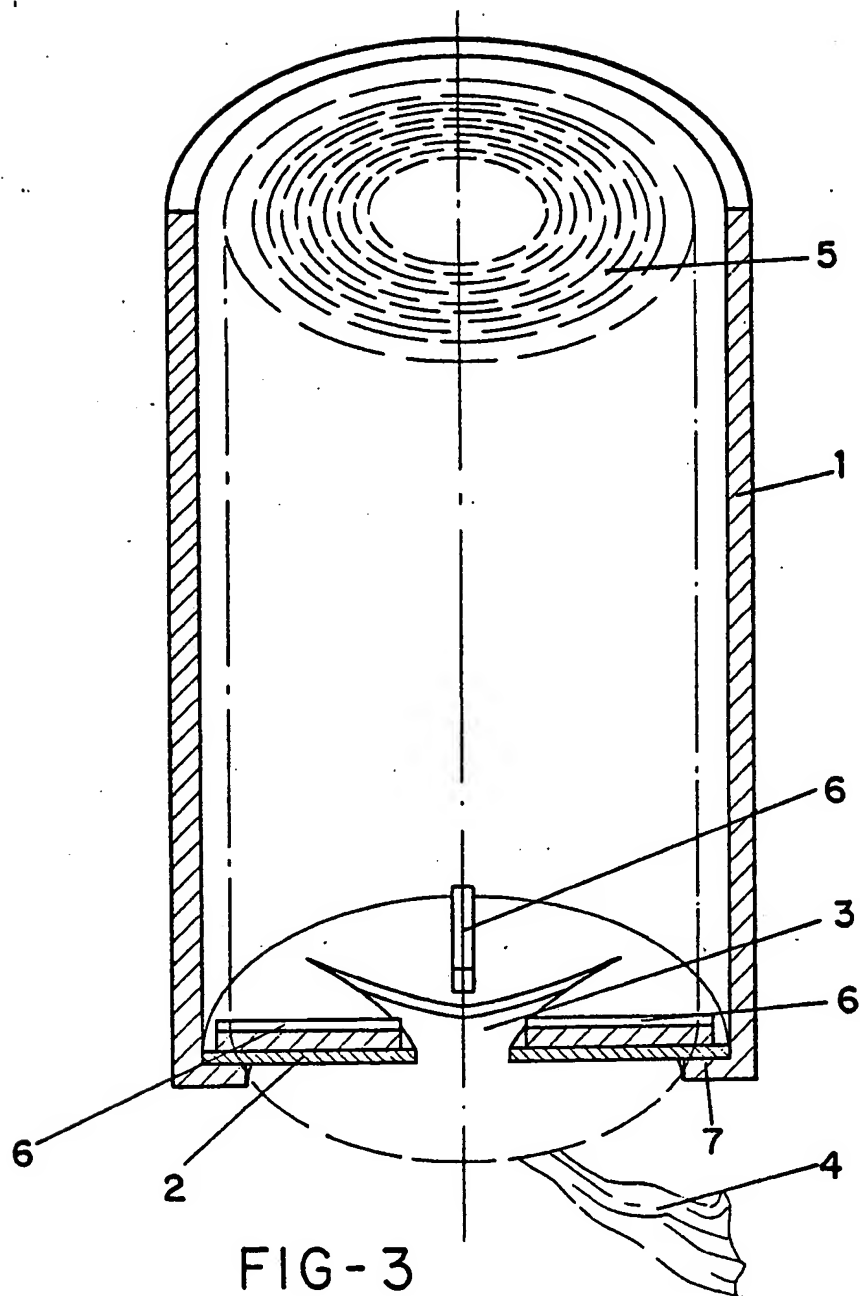
(57) A paper dispensing device comprises a cylindrical container (1) in which a perforated roll of paper (5) is arranged so that sheets thereof can be pulled out through a lower end opening of the container, this lower end opening being provided with a plate or disc (2) having a central star-shaped opening (3) therein and radially extending prismatic projections (6) on which the roll is supported. When a piece of paper (4) is drawn out through the opening (3), it can be detached from the roll by pulling it sideways whereby the next sheet in the roll is trapped by one of the points of the star-shaped opening.



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## SPECIFICATION

## Improved paper dispensing device

- 5 The present invention refers to an improved paper dispensing device.

The paper dispensing device is of the type comprising a cylindrical container in which the paper, wound on a roll, is arranged so that portions thereof, limited by perforations transverse to the axis of the roll, can be withdrawn, that is, the roll of paper to be dispensed has previously been perforated so that, when same is pulled, it is broken at the nearest perforation and portions thereof can be withdrawn. Likewise, the mentioned roll paper is interchangeable since it is introduced in the interior of the cylindrical container which is open at each end one of its ends being provided with a cover while the other constitutes the outlet for the paper itself. The mentioned cylindrical container can either be hung from a wall or it can stand by means of an arm on the floor.

From these characteristics, basic and common to other existing paper dispensing devices, the novelty of the invention resides in the fact that the outlet end of the container has a plate or disc provided with a large star-shaped opening, corresponding to the geometric centre thereof, which star preferably has four sharp points which are linked to one another by curved lines.

The upper or internal face of the mentioned plate or disc, constituting the lower base of the container, is provided with prismatic projections arranged radially between each two points of the mentioned star, which projections extend to almost the periphery of the large plate or disc constituting a seating surface for the roll of paper. The central opening determined by the mentioned star constitutes the corresponding outlet for the end of the roll of paper housed in the interior of the cylindrical body.

Consequently, the purpose of the shape of a star contemplated in the plate or disc of the lower base or outlet is the following: when the paper is pulled downwards and to one side, it is throttled in one of the points of the star, offering a greater paper outlet resistance, so that by continuously pulling the end of said roll, the paper will be broken at the nearest perforation.

To complement the description which will subsequently be made and for a better understanding of the characteristics of the invention, a set of drawings is attached to this specification wherein the following is represented:

*Figure 1* represents a plan view of the lower plate or disc corresponding to the outlet of the cylindrical container, illustrating the central star-shaped opening and the four radial projections provided on the upper face of the mentioned plate or disc.

*Figure 2* illustrates an elevational view of the plate or disc represented in the preceding figure.

*Figure 3* illustrates a sectional view of the cylindrical container which constitutes the paper dispensing device.

It is clear from the mentioned figures that the

paper dispensing device is constituted from a cylindrical container 1, one of whose bases, specifically the upper, is contemplated with a cover while the opposite base presents a plate or disc 2 provided with a central star-shaped opening 3 through which the strip of paper 4, corresponding to the roll 5 housed in the interior of the cylindrical body 1, will pass.

In this way the roll of paper 5 is vertically arranged in the interior of the cylindrical container 1, which roll has transversal perforations to determine portions of paper along which it is broken during withdrawal.

On the other hand, the upper or inner surface of the lower plate or disc 2 is provided with radial recesses 6 which constitute the supporting and seating means for the roll of paper 5.

The mentioned disc or plate 2 is supported on the inner wing of the cylindrical container 1, which wing is formed as a result of an annular flange 7 extending inwardly from the lower edge of the mentioned cylindrical container 1.

On the other hand, the points of the star-shaped opening 3 are sharp and are linked to one another by curved lines, so that when a strip of paper 4 is pulled, same will be broken at the corresponding line owing to throttling of the paper in one of the points of the mentioned star-shaped opening 3. Thus, the desired portions of paper can be withdrawn by merely pulling same towards one side so that the mentioned strip of paper will be broken along the corresponding perforation.

Consequently, and due to the special design of the plate or disc 2 along with the corresponding strip of paper 4 will leave, the problems originated in other known dispensing devices will not take place, where in the roll or strip of paper should necessarily be fixed by hand and it should be pulled with the other hand to produce the corresponding breaking, which does not take place in this case inasmuch as the strip of paper will be broken by the mere pulling since same will be throttled by the sharp points of the star-shaped opening.

## CLAIMS

1. A paper dispensing device comprising a cylindrical container in which paper wound on a roll is housed, the container having openings at each end so that portions of the paper limited by perforations transverse to the axis of the roll can be withdrawn, there being provided at one said open end of the cylindrical container a plate which supports the roll and has a star-shaped central opening therein the points of which are sharp and are linked to one another by curved lines and the upper surface of the mentioned plate being provided with prismatic projections which extend radially between each two points of the star almost to the periphery of the plate, said projections constituting seating surfaces for the roll of paper, while the central opening forms an outlet for the end of said roll of paper.

2. A paper dispensing device according to claim 1 wherein the said star-shaped opening has four points, four said radial projections being provided

between respective pairs of points.

3. A paper dispensing device substantially as herein described with reference to, and as illustrated in, the accompanying drawings.

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